

Historic, Archive Document

**Do not assume content reflects current
scientific knowledge, policies, or practices.**

Reserve
aTD395
B4713
1934

UNITED STATES DEPARTMENT OF AGRICULTURE

FOREST SERVICE

German Translation

from

"DIE BAUTECHNIK"

12. Jahrgang Heft 26

II. Enlarged Quarter (of the year) Book 1934

By

Dr. Ing. Fritz Orth Berlin



United States
Department of
Agriculture



NATIONAL
AGRICULTURAL
LIBRARY

Advancing Access to
Global Information for
Agriculture

German Translation

from

"DIE BAUTECHNIK"

12. Jahrgang Heft 26

II. Enlarged Quarter (of the year) Book 1934

By

Dr. Ing. Fritz Orth Berlin

nottelegant nævne)

220

EXCELSIOR 1117

de Fred præsident .II

med død (med øre til) vedvare begæld .II

W
alfrid den ældre .III .III

THE ALLUVIAL DEPOSIT IN DAMMING RESERVOIRS

1. Generalities

The constructions of large damming reservoirs on a greater scale has been approached only in the last decades. Most of the dams are scarcely older than 30 years. This is the reason for the lack of data on the rather disagreeable fact of alluvial sedimentation particular at streams carrying heavy bedload where the effects become perceptible only after a long period of time. The known information of such investigations are for the greater part even worse. The author has collected the results of known experiments and discussed their merits with the purpose of showing how to consider the alluvial deposit in a practical way at design and construction of dams.

We now deal with the diminutives of the storing volumes only—not with discharge or the clearing of the service water (of sand). For the sake of better explanation some smaller dams without storing reservoirs will be mentioned.

2. Process of Alluvial Sedimentation

Every stream carries solid particles which either are rolling or jumping along the bottom or are suspended and distributed all over the cross-section of the stream and transported by the flow. The first kind is called bedload the second sediment or deposit both are signified as heavy bedload. There is no exact limitation between bedload and sediment because both are influenced by changed flow or water volume. The transport of heavy bedload at high water partly reaches extremely great values whereas at low water often practically it goes back to naught. Allone of sediment as highest values in g/l were measured at:

Ache in Tyrol	1.5
Aare	2.7
Reuss	2.8
Lech to	4.2
Diverse streams at melting snow to	50. and more

Mostly only the deposited sediment is measured because the determination of its volume is less difficult and because it represents the far greater portion of the whole (heavy) bedload transport. Published data gives very varying statements about the proportion. The Americans calculate with a value of 80% (sinkstoffe) deposited sediment and 20% of bedload (suspended) (Ric Grotte) only 1% bedload was found in the Mississippi and on the Volga (Russia) even only 0.2 to 0.00%.²

The sedimentations also play an important mostly underestimated part at the upper sections of mountain streams for instance Muhlhofer at his investigations at the Inn near Kirchdichl found that 2/3 of the transported heavy material was sinkstoffe.

The determination of the deposited sediment may allow a raw calculation of the general bedload freight but it is not of great interest otherwise in regard to sedimentations questions whether bedload particles reach the basin suspended or rolling on the bottom because more and more suspended particles are depositing themselves at the decreasing velocity in the basin. This points to the greater significance of the sieve curve of the complete heavy sediment.

Here it shall be tried to explain the small proportion of bedload at the heavy bedload transport in general measured in great streams.

The sieve curve of heavy bedload in a channel downstream shows always a finer size of particles. If now the limit (at the middle of the year) between bedload and deposit (of uniform particles) remains the same at the lower section of the stream as that of the upper section then the bedload proportion downstream must strongly decrease. The critical size of particles of course is also finer but not of a corresponding measure to the greater fineness of heavy bedload. The explanation of the measured small participation of bedload in the lower sections of great streams seems to uphold the fact of decrease of heavy bedload freight from source to estuary. The process of sedimentation in the reservoir starts at the inlet (entrance) and spreads in delta formation slowly towards the dam. But the bedload (deposit) are distributed all over the length of the reservoir; the particle size becomes finer and finer towards the dam. The greater the length of the reservoir with simultaneous in and outflow the greater the fact of sedimentation of even the finest particles. Reservoirs partly filled and for a long period without any discharge of course show a complete (thorough) sedimentation.

So for instance at the Elephant Butte Dam--72 km of length where the sedimentation also of the greatest portion of bedload took place at the upper kilometer whereas the deposit further towards the dam consisted of finest mud and became almost naught. Such would not have been the case in a shorter basin.

Any reservoir (basin) after the elapse of more or less time will show a complete sedimentation if it is not regulated by especial means. But the periods of time during which a complete sedimentation would fill up the basin at any dam construction are at least at most German dams extremely long and for this reason excluded from our advancing reflexions. But at many other dams with strong and heavy bedload transport these periods are rather short as demonstrated by table 1 where a number of instances are collected whose closer investigations brings to our

against the above classification of this section. It apparently gives us the completely altered texture of lignite with lignite carbonification, which becomes soft and brittle.

The present sedimentation at the head of the basin competitive in the first area:

$$\text{Sedimentation per year} = 37 \quad (\text{m}^3/\text{year})$$

$$\begin{aligned} \text{Sedimentation per year and km of river subject to rainfall} \\ = 37 \times 711 \text{ km} = 26477 \text{ m}^3/\text{year} = 37 \times 10747 \\ \text{m}^3/\text{year and km}^2 \end{aligned}$$

$$\begin{aligned} \text{Sedimentation on portion of basin subject to } 5.0\% \text{ growth of} \\ \text{sedimentation} = g = 711 \text{ km basin subject to sedimentation} \\ \text{middle yearly sedimentation in years} = \text{duration} = N = \\ 1000 \text{ years} \quad \text{volume of basin in relation to years subject} \\ \text{to rainfall height of damming (level)} = S = \frac{1.1}{100} \quad (\text{m}^3) \end{aligned}$$

$$\text{proportion of heavy bedload deposit} = n = 7/8$$

$$\text{Heavy bedload fraction per year} = n \cdot 37/\text{year}$$

$$\text{Heavy bedload fraction per year and km} = \text{modified heavy} \\ \text{bedload fraction} = n \cdot 37/\text{year} \cdot 10747 \text{ km}$$

Figure 1 illustrates the vertical growing process of sedimentation of the steppe-dominant, fig. 2 and 3 show similar deposits in the "Taymarch" River (Uralia) out of the two basins in Uralia.

The following stage should (steps of action) above the level of the basin and the bottom of the basin and the river bottom below the dam reach into function and duration of the sedimentation process are built up to the adjacent parts. Here we indicate that this applies for the reason of lack of writing space.

CHAPTER III. INFLUENCE OF RAINFALL ON THE RIVER AND ON RAINFALL

1. Generalities

In the following it will be tried to determine the influence of the river subject to rainfall upon the magnitude of the sedimentation themselves. An investigation of the influence of the mountain rivers will be made in another chapter.

We intend to discuss the processes of the river as they are known in literature and that all the heavy load is deposited in it.

In this case the ratio or relation of the middle of the year is equal to that of the bedload freight.

The heavy bedload freight at a certain place of the stream is influenced by the flowrate condition of the river subject to sediment supply and by the capacity of the stream to transport heavy load in the various stages the concretion pattern. The more potential problems for the greater part involved will now only shortly be touched.

2. The Formation of Heavy Bedload in the River Subject to Inundation.

The formation of heavy bedload depends on many circumstances and only some of the more important will be mentioned. (fig. 4)

1. Depositional conditions. It is obvious that the formation of heavy bedload is far stronger in an area of steep slopes than in a place as the Andes are the condition of the slope very different from such as the lower longitudinal slope of mountains. Extremely heavy bedload transports are often recorded during the last period southwards from eastern mountains. The heavy sediments within the alluvium banks at the confluence is caused by the slopes in these tributaries which are at potential to mixed with sand and rock concrements therefore the mining of the coal by using a dredger.
2. Dredging and dredging. Dredges facilitate the removal of the dredging perspective of the dredge it is the contribution of both which facilitates particular the removal of heavy bedload formation.
3. Influence of the soil nature. It may be pointed out that a dry soil gives a greater capacity heavy bedload transport to the river which can give an addition of all sorts from greater bedload transport than primitive maize.
4. Influence of terrace on accumulated soils. The formation of heavy bedload in a certain area depends more closely to rainfall, therefore varied soil particularly on slopes contributes great volumes.
5. Influence of soil nature. In the river found that dry soil gives less resistance than moist soil and it is known that at the same area capable to resist the ground flood than areas soil mostly transports less heavy bedload than the first one. This shows clearly why dams in arid areas like such as in Algiers or Texas have their difficulties by the accumulation of bedload.
6. Transport of heavy bedload in stored materials.

The storage channel or areas in the reservoirs over the transport of the heavy bedload which has been found in the concretionary system areas. Under the pressure of transport over periods of time bedload is lost and other materials contained in the bottom are

1. The first section of the document discusses the history of the project, mentioning the initial concept of a "National Museum of African American History and Culture" and the subsequent development of the National Park Service's role in its creation. It also highlights the importance of the Smithsonian Institution's involvement in the planning process.

2. The second section provides a detailed description of the proposed museum's architecture, design, and exhibits. It emphasizes the unique character of the building, which is described as a "crown jewel" of the nation's cultural heritage. The design is inspired by traditional African architectural elements, such as the mud-brick structures of West Africa, and features a distinctive, organic shape that is intended to reflect the rich history and diversity of African American culture.

3. The third section focuses on the museum's mission and purpose. It states that the institution will serve as a "center for education, research, and interpretation of the African American experience." The museum will also be a "place where people can come together to learn, share, and celebrate their common humanity."

Under the leadership of Dr. Henry Louis Gates Jr., the museum has been working to develop a comprehensive collection of artifacts, documents, and oral histories that will tell the full story of African American history and culture.

The proposed museum is set to open in 2024, and it is expected to become one of the most visited attractions in Washington, D.C. The building will be a symbol of the strength and resilience of the African American community, and it will serve as a reminder of the contributions of African Americans to the United States and the world.

Henry
Louis
Gates

Chairman of the Board of Directors, National Museum of African American History and Culture
and President of the Harvard University Library, Cambridge, Massachusetts

carried along, other losses are effected by the flow through a lake or over raised sections. New and additional material is deposited at various of the channel which have been deepened which provides room for the material to travel through a lake and via geological parties.

However, due to the complexity with the diverse influences of the precipitation, wind pressure and the way and ways of heavy bottom transport we will now mention that the so influenced freight at a certain point in time becomes the function of the stream bottom in the profile of banks and river bottoms. By understanding the concept we can study heavy bottom transport to any such bottom that at a specified stream bank profile particular the falls at a fixed observed point contains the main upper mentioned influences. But this is however only of generalized bottom and profiles that mean if the flow conditions are such as the stream at every point of the longitudinal profile is unable to move the heavy bottom from the present location beyond it at just this point further away or that within a period of time without a relative or distinction of the bottom occurs. In cases of course it would be possible to attain a conclusion of bottom profiles by an examination of the fall conditions.

But if heavy bottom deposit alterations with motions of heavy bottom the freight at a small fall on the bank of a river, such as can be said greater than at about the bank of a rapidly flowing pointed section. Once heavy bottom remains caused by destabilization of the bottom is small, or a few greater falls under all other conditions for greater, depositing of transport should never be mistaken for real transport.

4. Definition of Influences.

Naturally it would be of great importance if the influences of the sedimentation process at one and ocean regulations and the movement current coefficients of heavy bottom freight could be determined. Our knowledge about heavy bottom transport is still very deficient. Our attempts must now to establish formulas for calculating both the formation of this material formulae cannot be too difficult as such the formulae under the condition the results heavy bottom freight has only the transport of detritus.

In the lower portion of bottom freight has heavy bottom at a fixed point of a stream channel a severe particular the fall of water used to be an essential factor. The next terms of these formulas are:

as someone would call it. I am writing down several words
and an English sentence from this text. I will then translate
them into Spanish and I would like someone to translate
my text so we can compare the Spanish text and mine and also
see if there are any mistakes.

It is good to remember that Spanish and English have many
similarities and also many differences. In this case, we will see some.
English has 26 letters in the alphabet, but the Spanish alphabet
only has 22 letters. There are also some additional words in English
that do not exist in Spanish. These words are usually used in writing
but not in speaking.

For example, the word "the" does not exist in Spanish. It is replaced by the word "el". This is because the English word "the" is used
to indicate a specific object or person, while the Spanish word "el"
is used to indicate a general object or person.

Another example is the word "and".
In English, it is used to connect two or more words.
In Spanish, it is used to connect two or more sentences.

There are also some differences in grammar.
For example, in English, the verb "to be" is
used to indicate a state of being.
In Spanish, the verb "ser" is used to indicate
a state of being.

So, in my opinion, Spanish
will be difficult to learn.

But I think that with time and
practice, it will become easier to learn.
So, keep practicing, and you will succeed!

I hope this text will help you learn
the Spanish language better.
Good luck! To your success!

Wadsworth	$Q = 0.00001 V^2$
Kreuter	$Q = \frac{V}{10} A^2$
Wilhelm	$Q = \frac{V}{20} A^2$

Q signifies flow of water per second.

V signifies volume of water at start of bedload motion.

A signifies mean fall at the respective location.

α signifies discharge in m^3 .

β signifies area volume of discharge in m^2 sec.

γ signifies bedload coefficient.

δ signifies bedload product.

As already mentioned the continuation of γ possesses a value only at an instantaneous profile of the stream bottom. The last formulae are giving only the magnitude and facility and the characteristics of bedload which is the few latter expressed by the formulae of Wadsworth. The third expression from this consideration is that before we can derive useful relations between them one must know α , β , γ and the heavy bedload coefficient δ and δ' and δ'' and the relation of δ to δ' and δ'' . This is not known. The initiation of heavy bedload freight still rests at the first formula. A similar investigation of it is a subject about from now to many years for it is not available on the various aspects. The problem of useful instruments for this purpose was approached only very recently.

"as far we dealt always with heavy bedload freight that means "the quantity."

Now we will expect about this assumption between the condition of the precipitation area and the characteristics of the heavy bedload freight and of the influence of the condition of sedimentation which consequently takes place.

THE EFFECT OF SEDIMENTATION AND THE CONSEQUENT INFLUENCE ON THE SIZE OF THE RESERVOIR

After understanding the heavy bedload freight which is initiated while the rainfall continues as precipitate in a measure or kind of intensification of the rainfall intensity the result of it is to be traced to the measure. Considering this we get next the size of further consideration for the smaller areas where there has could not be exact uncertainty at most of the instances. As an illustration of size differences let us consider only the catchment basins. The smaller ones can be filled by the more easily collected and those with the greatest value for their first flows. The size of our

1. Size of the Reservoir.

The problem is of the heavy bedload freight which should be disposed together with the relatively slow or the measure which is equal to how long occupied by the starting height of the stream reservoir (H_0 , α). We must here distinguish the relative size also by the proportion between each value of H_0 and the values of reservoir for this we can use the results of further consideration for the smaller areas where there has could not be exact uncertainty at most of the instances. As an illustration of size differences let us consider only the catchment basins. The smaller ones can be filled by the more easily collected and those with the greatest value for their first flows. The size of our

Chase (1992) has found that
approximately 10% of the variance in
the time spent in the field can be explained
by the total number of species observed.

The first task was to identify the species of birds in each of the 10 plots. This was done by examining the bird surveys and the bird lists for each plot. The bird surveys were used to determine the presence or absence of each species in each plot. The bird lists were used to determine the number of individuals of each species in each plot.

Thus some kind of classification of sediments can almost presumably. There is a 1. the other less important. For smaller the value the coarse grain size and small amount of coarse causes the deposit of any sort of heavy bottom.

Concerning the transported sediment of more continental size almost always seems to dominate it is the sediment of which only a portion remains in the reservoir.

To assess the quantities the calculation has to be based on a sieve curve of sediment with the help of the fall velocities of the individual particles in water and the mean fall velocities of a fraction. Of course such a calculation neglects the turbulence and thus the fine sediments which under circumstances a great part are washed out of a river never stratification. In the following we want to give an idea of the magnitude of the value a in dependence to the storing height z .

The specific sedimentation in the certain area on the Rhine delta, as is reported according to tests I with $0.4^2 \text{ m}^2/\text{sec}^2$ and with an average due to $0.4^2 \text{ m}^2/\text{sec}$ lower storage the average sediment freight of the Colombe according to more recent measured by authors is $0.4^2 \text{ m}^2/\text{sec}$ which corresponds to 410 kg/m^3 . Calculated between 0.62 and 0.40. At further increasing sedimentation ($a = 0.000$ and $= 0.000 \text{ sec}^2$) it leads to 12.4 respectively 0.2 m^2/sec^2 which corresponds with $a = 0$ of course non-sense values.

The following values a according to Author were measured in the small reservoir Fehlach on the Aare:

$0.01 \times 100 \text{ m}^2/\text{sec}^2$	$1000 \times 100 \text{ m}^2/\text{sec}^2$	middle $100 \text{ m}^2/\text{sec}^2$
$0.01 \times 100 \text{ m}^2/\text{sec}^2$	$1000 \times 100 \text{ m}^2/\text{sec}^2$	
$0.01 \times 100 \text{ m}^2/\text{sec}^2$	$1000 \times 100 \text{ m}^2/\text{sec}^2$	$100 \text{ m}^2/\text{sec}^2$

In 1919 according to Author measurements of sediment on the surface (including a continental portion of the precipitation area of Fehlach) were performed while after separation in stratification space resulted in $200 \text{ m}^2/\text{sec}^2$.

According to an estimation of Author outside the $24 \text{ m}^2/\text{sec}^2$, $24 \text{ m}^2/\text{sec}^2$ former sediment and $24 \text{ m}^2/\text{sec}^2$ bottom so that one can say that $24 \text{ m}^2/\text{sec}^2 = 24 \times 24 = 576 \text{ m}^2/\text{sec}^2$ or $24 \text{ m}^2/\text{sec}^2$ that is $a = 24 \text{ m}^2/\text{sec}^2$ to destratify ($a = 1.000 \text{ sec}^2$).

The result storage reservoir Fehlach is situated directly above the junction of the Aare with the river Reuss, the value measurements in the lake of the previous to the regulation of the Fehlach reservoir is obtained most uniform condition as well at Fehlach as well in this case of delta measure = 35 to 40% of the heavy load freight are ascertained.

with those of the world in a few cases with a few others
but you do believe the money comes to him afterwards

while this happens there is
a very little time left

the last day
and the last

missionaries are now gathered at the
S.C. conference hall and prepared to go home
and go back to their former labours

and so it has been all the time

the last day of the S.C. conference

At the bottom probably in 1938 at one time was 170,000 m³ heavy ballast deposited 97,000 m³ or 55% not in form 100,000 m³ heavy ballast deposited 100,000 m³ or 50% = 17.4%. There is at the start one 5.7 m below horizontally layers.

At 100m the average heavy ballast transport was 100,000 m³ deposited by sea only one m³ m⁻² m⁻¹ here is $\delta = 7.1 \text{ m}$.

The portion of sedimentation is a precessed 10% the more the fewer sedimentation traces are set before the dam wall. As the deposits in the various reservoirs of bedrock and alluvium are at the same point is 3.0 m high and therefore layers are able to a maximum visible height to vanish completely before the wall.

But at the dam of Grosser Kienberg the water level is higher at the great $\delta = 45.8 \text{ m}$ at least before the building of the dam. Therefore a substantial portion of heavy ballast left the reservoir because there are still available up to 1000 m thickness before the wall. In lower levels both smaller dams of Oberndorf and Oberaußerdorf have much smaller δ .

According to (see Table 2) that off $\approx 37,000 \text{ m}^3$ ballast about 1/3 of the heavy ballast freight of the stream (about of $7 \times 1000 \text{ m}^3$) there is for Oberndorf:

$$\delta = \frac{14,000}{\frac{1}{3} \cdot 1000} \cdot \frac{1}{1000} = 11.3 \text{ m} = 1130 \text{ m}^2 \quad \text{or} \quad \delta = 11.3 \text{ m}$$

In this way this reservoir $\delta = \frac{14,000}{\frac{1}{3} \cdot 1000} = 100 = 10.0 \text{ m}$

which gives surface with the upper modified volume.

As expected we find with growing δ an increase of the unmodified portion of the general heavy ballast freight.

At coarse form of reservoirs does not occur and particle size distribution of the heavy ballast are included in the volume. The smaller the size of sedimentation particles in a reservoir the smaller the surface weight. The smaller is the share of the unmodified portion of ballast freight. (see chapter 1). A limitation of larger volumes of the sea by elevating the walls, the effect is made in the increase of δ from 1.0 m to 100 m by 100 times.

The increased sedimentation observed during the last decade is affected by a general long as no longer dredging caused by a growth of the walls.

the world. One should not be afraid to take risks and to do things that others do not. Every person has a unique perspective and can contribute something valuable to the world.

Finally, one should always strive to be kind and compassionate towards others. This is a fundamental principle of many religions and philosophies, and it is essential for building strong relationships and creating a positive impact on the world.

In conclusion, one should always strive to be open-minded, curious, and adaptable. By doing so, one can learn from their mistakes, grow as a person, and make a meaningful contribution to the world.

One should also be willing to take risks and to do things that others do not. This is a fundamental principle of many religions and philosophies, and it is essential for building strong relationships and creating a positive impact on the world.

Finally, one should always strive to be kind and compassionate towards others. This is a fundamental principle of many religions and philosophies, and it is essential for building strong relationships and creating a positive impact on the world.

One should also be willing to take risks and to do things that others do not. This is a fundamental principle of many religions and philosophies, and it is essential for building strong relationships and creating a positive impact on the world.

Finally, one should always strive to be kind and compassionate towards others. This is a fundamental principle of many religions and philosophies, and it is essential for building strong relationships and creating a positive impact on the world.

One should also be willing to take risks and to do things that others do not. This is a fundamental principle of many religions and philosophies, and it is essential for building strong relationships and creating a positive impact on the world.

Finally, one should always strive to be kind and compassionate towards others. This is a fundamental principle of many religions and philosophies, and it is essential for building strong relationships and creating a positive impact on the world.

One should also be willing to take risks and to do things that others do not. This is a fundamental principle of many religions and philosophies, and it is essential for building strong relationships and creating a positive impact on the world.

3. Formation of the Reservoir.

At very large β the formation is of no influence on the size of the reservoir, but at small reservoirs more relative great quantities of sediment are discharged with the flow for the bedload deposit in reservoirs of uniform size by equal conditions are not influenced by the formation but the quantity of transported sediment is influenced of very little because the horizontal ray traveled by the suspended sediment reaching the alluvium shorter but as to the horizontal velocity nothing suggests it is larger but from these reservoirs the ray traveled by suspended bedload particles toward the bank is longer but the horizontal velocity is also greater. The conditions of course are not easily conceived because the deposition of sediment is delayed by the turbulence of the water.

The fact that the specific heavier particles travel with sediment is sufficient though at the same height the stream value of the horizontal processes a smaller depth of fall may create at the same a larger horizontal velocity of the small bedload particles.

In a comparison of short lived reservoirs with others where there are two to three times that of the first an reduced velocity of the water will be due to short ray which causes it to suggest that the water only in a short time loses to the stream will in showing a stronger current removes the sediments less little or no part in the bottom, but the formation of the reservoir is of much greater significance to the character (example VII).

4. The Location of the Reservoir on the Stream.

The proportion α of the sedimentation of coarse grains according to the position upstream of other positions which influence the bottom and river bed proportionally proportion of particles their size formation (further sand or gravel) their weight excess.

It is known & true that all the properties of uniform flowing turbulent and equal quantities of suspended sediment the case in the upper stream having located gradually one may observe to conclude that the lower probability causes the heavy bottom to of fine particles accumulates and are called at the end of the alluvium to carried away. It is impossible to have not enough experimental data to measure this influence by work.

From a consideration of successive, no exterior values in mouth areas may be mentioned that value of the water and the accumulation of the suspended rays because if the water is not fast for a long time and the particles of sand increase substantially at steady speed and therefore where a fine has to be applied to only a small amount of this sand last be affected by low lying fine ground.

4. Operation of the Reservoir.

hazardous materials and standards were used
and the relevant information was fully disclosed.
and appropriate action taken when any hazard
appeared or was suspected and we do not
believe that the corporation will be liable

in connection with claims that have arisen
and may arise from the use of asbestos and the failure to
disclose the hazards and risks to the public
and the health of our employees.

If you believe that you have been
exposed to asbestos or any other
hazardous material please contact
our office at 1-800-222-1848 or 1-800-222-1848

We are available 24 hours a day 7 days a week to answer
your questions and to provide information to help you make
the best decision for your health and well-being. We are here
to help you protect your health and to ensure that you receive
the best medical care possible. We are here to help you
make informed decisions about your health and well-being.

Please call us today for a free consultation and to learn more
about the many options available to you.

the proportion of the heavy sediment present earlier to sedimentation is also authoritatively ascertained by the observations of the author regarding dredging such sediments for the discharge of water from the reservoir are made at these new situations in the same sediments which are necessarily added at the dredging but will be later washed out in particular in dredge CII which by the kind of construction is absolutely insure the destruction of a portion of the heavy sediment by virtue already deposited quantities would be reduced. It is over the low water (filled water) dredges by dredging reduce considerably the low lying discharges and the withdrawal of water.

The sedimentation portions of heavy sediment in the stream the more complete. The suspended water velocity is liable to exceed by the first instance the high water volume with their great quantities of heavy sediment are necessarily impeded causing the suspended volumes suspending only small volumes of sediment.

The more the discharge grows knowless away from the stream channel down and follows the high water volume or the supply the smaller is the portion of sedimentation. It is also of importance to note that the high water discharge is effected however by an overflow which of course produces surplus unutilized volume of sediment but the volume of water so stored would be by far lying dormant which if of sufficient measure are always of greater efficiency than over falls or even at the ends caused even action on the stream due to which from the high water therefore be attributable water.

DREDGE OF A RESERVOIR IN THE CAPACITY

2. DREDGE OF A RESERVOIR IN THE CAPACITY.

The question of sedimentation ratio and feasibility of a reservoir out of permanent interest to any developer in view that must be able to know what portion of water of his stream permanent will be lost to him in a year and how many years it will take to render his reservoir practically useless.

According to the example we had the curve for water remaining at an individual reservoir with constant deposit and removal after dredging a until it drops to zero if the rate of removal is constant. Therefore at the time we can the number of days of the accumulated dredging from we obtain a curve whose steep initial slope is a decreasing first order until we approach a horizontal the horizontal at the value of the capacity of the tank (Fig. 8).

The capacity of tanks and reservoirs is a fixed value of function of which we cannot increase but we can decrease it.

The capacity of inertia of a river depends on the properties of the heavy bedload and of the reservoir and depends on the capacity of the reservoir. If for instance one considers the for many reasons practical impossible condition of working in only an absolute pure inflow and discharging any supply (transporting heavy bedload) without any damping (perhaps by taking every time the whole weir away) then the capacity of inertia would be like the original. The more often the reservoir is empty and the less does the supply pass through the discharge of reservoir, the greater will be the capacity of inertia. The capacity of inertia (with other points) also forms a the greater part of the original capacity as the storage height α smaller. Ordinarily the mostly rather irregular course of the sedimentation capacity curve can for practical purposes be substituted by a theoretical curve with the equation:

$$P_n = C^* \cdot n^a \dots \dots \dots \quad (1) \text{ because } n \text{ small (high water)}$$

Then one finds a stronger increase (growth) than the supply of several years in more equal than in variable.

In this equation P_n , signifies storage space (volume) not subjected to sedimentation after n years or portion of the room $P^* = 1 - f_{\text{sink}}$, which corresponds to with the reservoir become practically useless and is denoted a = coefficient of sedimentation and n = number of years since start of operation up to the time of observation.

The sedimentation to the $n = 10$ year according to this condition is:

Because always $a < 1$ is, V_n decreases.

The proportion of sedimentation r of the heavy bedload weight in the n th year is:

The sedimentation grade c_n in the n th year is also decreasing correspondingly.

***** (4)

2. Durability.

The durability is to be computed from equation (1) $P_n = r \cdot P^* \cdot n^a$ to

***** (5)

r is given by the operative conditions. $a =$ at the design of a reservoir is either to be estimated from similar instances or to be computed according to an observation of n years from equation (1).

the first time in the history of the world, the
whole of Europe, all the provinces of Asia, and

the whole of Africa, and America, and Oceania,
have been gathered together in a single

empire, a power which extends from the
Atlantic to the Pacific, and from the Arctic
to the Equator.

The condition of society in the empire may be said to be
as follows:

(1) The empire is divided into provinces, each of which has a

governor, who is responsible for the government of his province.

(2) The provinces are divided into districts, each of which has a

district officer, who is responsible for the government of his district.

(3) The districts are divided into towns, each of which has a

town officer, who is responsible for the government of his town.

(4) The towns are divided into villages, each of which has a

village officer, who is responsible for the government of his village.

(5) The villages are divided into families, each of which has a

family officer, who is responsible for the government of his family.

(6) The families are divided into individuals, each of whom has a

individual officer, who is responsible for the government of his individual.

(7) The individuals are divided into

The author has computed the values of α as:

Austin	$\alpha = 0.73$
Memphis	$\alpha = 0.92$
Lake Penick	$\alpha = 0.948$
Lake Worth	$\alpha \approx 0.971$
Keokuk	$\alpha = 0.949$

most formations satisfy small values of α except dolomitic limestone which has great values of α .

The upper mentioned sedimentation methods may be looked upon only as first experimental tests. We will do not have enough experimental data to stipulate generalizations.

At very large reservoirs a still remains constant ≈ 1.0 after a long period. First it becomes proportional to magnitude of sediment as over the water area discussed by the author at the bottom. Artificial interferences or fluctuations and other more minor ones are highly influential at the same rate as the sedimentation has progressed were neglected. The corresponding calculations in Table 3 represent only a coefficient of the static amount of reservoirs I and the mean yearly sedimentation of the available accumulated volume. The durability on the model is given as is short because of later proceeding decrease of a bed being considered and it has been combined with a portion of the sedimentation volume deposited above the damming level and we know not whether the original starting point from Fig. 15 that form start is determined by the face of writing I instead of πl^2 .

There are some instances of complete sedimentation of basin II and of reaching a certain state of equilibrium:

At the earlier mentioned new Austin lake now is only a relatively small one (about) stretching along the length of the reservoir which is not developed.

At the end of Chancy on the Maine which completely became inundated (except of a flow tail after ten years of operation) are not only the sand but the gravel also is transported like riverbed in the channel of the Maine preserving the same fate for the lower situated one of Chancy Pougny.

Finally it still happens that a few unground but not sufficiently stable or sedimentating aqueous suspension of equilibrium the maximum of bedded deposits of the latter as for the Airport section further tempts the water. So it was observed that at the dam at about on the river the incrusting fine-grained sections of the river walls to ≈ 1.60 m and of the second $= 2.00$ m.

Viewed in geological periods of time a natural or artificial lake signifies only a short termed disturbance of the state of equilibrium of the stream which is eliminated by deposits. Collet says "The history of a lake is the history of its death." Even natural lakes disappear in remarkable short periods of time. So Krebs¹ mentioned a chart of Tyrol from 1774 which contains more than hundreds of lakes not existing since. Accordingly to him are all those names of towns and counties like Seeboden Seealp Seeberg Seewiese pointing to former lakes at their situations.

Particular such basins passes through by great streams (small e.) disappeared first (Rosenheimer and Salzburger See) whereas the greater lakes still existing have only small contributaries. (Former See Achensee Zellersee Ossiacher See and others.)

The delta of the Rhone in the lake of Geneva since the old Roman time has advanced for about 2 m for that is the present distance of the port Valais (formerly the harbour city of Valesia) from the lake. At a progress of the same ratio the lake will be filled up by deposits in = 40,000 years and then form an alluvial lowland.

Lucky enough most of the dams do not suffer a substantial decrease of their capacity within the usual periods of deduction. Therefore a complete sedimentation occurring much later does not mean a loss of the invested money. But it may mean the loss of a desirable site for the future generations and that is certainly of great importance. This very question is of particular significance regarding irrigation dams in arid areas where as already stated an especially strong sedimentation exists and so in due time cause the elimination of artificial irrigation just by the failure of water storage and so turning back an once prosperous agricultural land into waste land.

In the following will be shown what resources are obtainable to stem the process of sedimentation in difficult instances.

PRECAUTIONS AT MOUNTAIN RESERVOIRS AGAINST SEDIMENTATION

1. Generalities

The method of precaution can be divided into three large groups of which the first one should hinder or lessen the entrance of heavy bedload into the reservoir: the construction or precipitation area and protecting dam.

The second group effects a protection by dredging the deposits or flushing such.

The third group consists of consideration of the distribution deposited in the design by providing an effectual sedimentation area upstream or by a weir.

2. Construction in the Area of Precipitation.

A very good method partitioning of area in two separate portions is that which is used for the distribution of the volume of transport of heavy bedload in natural streams as most subject to variation.

But this method to increase the period of usefulness of a reservoir cannot be a very satisfactory one because it requires an area of drainage expansion for the creation of the distributions.

But a complete stop to the finding of heavy bedload in the area subject to erosion can never be accomplished and furthermore would not even be desirable because it would disrupt the equilibrium of the stream. The areas at any change of transported bedload volume would react with corresponding changes in the areas of transport velocity and condition of the cross sections.

An effective reduction of the heavy bedload transport rates minimizes to a certain point of the main course of a stream the area below them a shallowing below this point namely a deepening of the bottom. If the cross section of a stream (or often in the case) for great distances reaches upon a trivial bottom filled by gravel then the saturation of the bottom continues in the area of erosion beneath a fixed limit would not mean a reduction of heavy bedload transport at the main river because the areas for the volumes of geological periods can take heavy bedload from this store.

The construction and building of such monuments in a relatively short easily damage any parts pertaining to the finished construction. It could not prove to be of sufficient effect than it may take decades of years to perfect the dam.

In an examining estimation of the performance of the area (subject to rainfall) of a starting dam (perimeter of 1,000') has been found that the reservoir 10 years after completion will have only 3/4 but only 1/4 of its space taken up by sediments. In addition to this area in fact comes the value of the forest.

The failure of trees during the later centuries caused a three times faster process than during the medieval period the cause of which is pointed out by the deformities of the area subject to rainfall, i.e. whereas the construction of the dam itself has a great part consists of a fall reducing effect, the increase of fall above a dam induces an enormous increase of deposit

and I am sure you will be pleased to learn that the new government has been well received by the people of the country. The new president is a man of great ability and experience, and I am confident that he will be able to bring about a rapid improvement in our country's affairs.

I am sorry to say that the new president has not yet been able to make any significant changes in our country's policies, but I am sure that he will do so in due course.

The new president has also made it clear that he is committed to the principles of democracy and freedom, and I am confident that he will work hard to ensure that these principles are upheld in our country.

I am sorry to say that the new president has not yet been able to make any significant changes in our country's policies, but I am sure that he will do so in due course.

The new president has also made it clear that he is committed to the principles of democracy and freedom, and I am confident that he will work hard to ensure that these principles are upheld in our country.

The new president has also made it clear that he is committed to the principles of democracy and freedom, and I am confident that he will work hard to ensure that these principles are upheld in our country.

The new president has also made it clear that he is committed to the principles of democracy and freedom, and I am confident that he will work hard to ensure that these principles are upheld in our country.

The new president has also made it clear that he is committed to the principles of democracy and freedom, and I am confident that he will work hard to ensure that these principles are upheld in our country.

The new president has also made it clear that he is committed to the principles of democracy and freedom, and I am confident that he will work hard to ensure that these principles are upheld in our country.

The new president has also made it clear that he is committed to the principles of democracy and freedom, and I am confident that he will work hard to ensure that these principles are upheld in our country.

The new president has also made it clear that he is committed to the principles of democracy and freedom, and I am confident that he will work hard to ensure that these principles are upheld in our country.

The diversity of the proposed dam sites in the later lists (see table 1) has its cause in the extensive scope reduction of the area which began in 1921 and seems off the way gradually still.

2. Protective Dams.

- a. Protective dam with by pass channel. The fundamental idea of this construction is to protect the lower bottom of the reservoir by the inlet of the reservoir in order to protect it by the way of a by pass water body in the upper. A small dam construction is avoided nearly as far as possible by using the existing soil as a base for the reservoir. The greater portion of the flood transversal heavy load is conducted through the by pass channel whereas only the shear stress falling over the main portion the general reservoir. Gallery or channel may serve as by pass. Both serve very well. Construction having galleries are all having galleries, otherwise tunnels. Tunnel not galleries, important.

A proposal to have a large iron concrete tube pass by pass through the reservoir can not been realized for reasons of high expenses. Such a situation does with by pass channel is suited for reservoirs of greater plants only which have small storing bottom (level) and no great height. A further reason is the important point that Amsteg (Fig. 7) particularly embarrassed because of its small a (with mean yearly heavy loadload freight = 100,000 gr in part as large than the capacity of the dam) and had particular to protect. The necessary by pass gallery measured only one m of length.

The by pass must have the capacity to take care of the greater portion of floodwater because it is exactly this floodwater which should not enter the reservoir. At Amsteg is the HKC. $350 \text{ m}^3/\text{sec}$ of which the gallery absorbs $325 \text{ m}^3/\text{sec}$. The by pass has always to be of substantial measure and is only possible by great amount of water which is exactly corresponding with the upper mentioned small storage height. There will be very short reservoirs with the great excess of water are also easily those at which flooding stops and results in that in individual cases it should thoroughly be considered whether such a reservoir should be protected by an extensive by pass or if the flooding method should be preferred. The at the construction of a reservoir by pass does not need to be constructed for such great flood water volumes and does not need such a careful construction as in a r. case has to be provided in regard to the decreasing strength of the shearing force.

Dam to construct by passes the solid bottom of below the reservoir really from the stream valley and construct it over the talus-lad sideward or upon old valley bottom. But that would at best result in too small storing volume of water.

- b. Protective dam without by pass. The protection can without a by pass channel contains the heavy loadload as a protecting zone and is cause cause of the sand's a only during a relatively short period and then losses its static values. The natural motives therefore is to abstain from construction of such dams and instead of it provide galleries or by a suitable location of the soil of the reservoir.

13. SANTA MARIA DEL RIO, COAH.
ESTADOS UNIDOS DE AMERICA

62

En el año de 1880 se establecio en este pueblo una colonia de
migrantes de Irlanda que se dedicaron a la explotacion de la
tierra y a la fabricacion de vinos y licores que se vendian en
los Estados Unidos. Los colonos eran casi todos de la raza blanca
y de la clase media. La mayor parte de ellos eran agricultores.

En el año de 1885 se establecio en este pueblo un grupo de
migrantes de Irlanda que se dedicaron a la explotacion de la
tierra y a la fabricacion de vinos y licores que se vendian en
los Estados Unidos. Los colonos eran casi todos de la raza blanca
y de la clase media. La mayor parte de ellos eran agricultores.

En el año de 1885 se establecio en este pueblo un grupo de migrantes
de Irlanda que se dedicaron a la explotacion de la tierra y a la fabricacion de
vinos y licores que se vendian en los Estados Unidos. Los colonos eran casi
todos de la raza blanca y de la clase media. La mayor parte de ellos eran agricultores.

En el año de 1885 se establecio en este pueblo un grupo de migrantes de Irlanda
que se dedicaron a la explotacion de la tierra y a la fabricacion de
vinos y licores que se vendian en los Estados Unidos. Los colonos eran casi
todos de la raza blanca y de la clase media. La mayor parte de ellos eran agricultores.

En el año de 1885 se establecio en este pueblo un grupo de migrantes de Irlanda
que se dedicaron a la explotacion de la tierra y a la fabricacion de
vinos y licores que se vendian en los Estados Unidos. Los colonos eran casi
todos de la raza blanca y de la clase media. La mayor parte de ellos eran agricultores.

En el año de 1885 se establecio en este pueblo un grupo de migrantes de Irlanda
que se dedicaron a la explotacion de la tierra y a la fabricacion de
vinos y licores que se vendian en los Estados Unidos. Los colonos eran casi
todos de la raza blanca y de la clase media. La mayor parte de ellos eran agricultores.

En el año de 1885 se establecio en este pueblo un grupo de migrantes de Irlanda
que se dedicaron a la explotacion de la tierra y a la fabricacion de
vinos y licores que se vendian en los Estados Unidos. Los colonos eran casi
todos de la raza blanca y de la clase media. La mayor parte de ellos eran agricultores.

En el año de 1885 se establecio en este pueblo un grupo de migrantes de Irlanda
que se dedicaron a la explotacion de la tierra y a la fabricacion de
vinos y licores que se vendian en los Estados Unidos. Los colonos eran casi
todos de la raza blanca y de la clase media. La mayor parte de ellos eran agricultores.

En el año de 1885 se establecio en este pueblo un grupo de migrantes de Irlanda
que se dedicaron a la explotacion de la tierra y a la fabricacion de

vinos y licores que se vendian en los Estados Unidos. Los colonos eran casi
todos de la raza blanca y de la clase media. La mayor parte de ellos eran agricultores.

En el año de 1885 se establecio en este pueblo un grupo de migrantes de Irlanda
que se dedicaron a la explotacion de la tierra y a la fabricacion de
vinos y licores que se vendian en los Estados Unidos. Los colonos eran casi
todos de la raza blanca y de la clase media. La mayor parte de ellos eran agricultores.

but if the deposits of regular bed load can be removed by a dam placed in other words, no more or less than the transmission of the bed material happens and accumulation that the elevation of water is different and more there is no need and will remove material stored in a not too deep and too large place. But this proposition are not yet completely convinced so that in general such a protective dam appears to be needless.

Different again are the conditions at artificaly reservoirs of drinking water for some purpose turn to the elevation of the water surface protection against sedimentation.

To take account we must consider the form of the reservoir, size of outlet, water circulation within the basin of body and density and current over the first sediment to decide the composition suited to the aims of reservoir. Attention on water protection of this kind had been accorded since古 possibility in the first place of reasonably enough must be furnished it will the arrangement in this manner could not have been undertaken (see table 1 Avise Lunchari 1931).

METHOD

a. Consideration of effectiveness of flushing methods.

By flushing we mean the removal of deposited sediment by the help of a waterflow which moves over the material mostly thrown up against in the wall. Earlier it has been said that any plant separation discharge, water from the reservoir of course does not yield even a small or less effective but quickly very small flushing.

Now let's proceed under the economy of flushing by way of a discussion of the factors favoring its efficiency.

Flushings are the more efficient:

1. the smaller the storage height at flushing
2. the greater the flushing stream at discharge
3. the greater the flushing outlet (discharge)
4. the lower the adjustment of the outlet
5. the more favorable the location of outlet
6. the greater the nature of flushing
7. the narrower the reservoir (steep banks)
8. the greater the former fall of flow in the reservoir
9. the shorter the reservoir
10. the more straight the reservoir
11. the further the progress of deposits
12. the finer the particles of the sedimentation
13. the rounder the individual particle of sediment.

b. Technical height.

First of all is pointed out that the flushing for the most part will not be of full efficiency order at an every reservoir.

•treaties to arbitrate, labyrinth or whatever and

The efficiency of minimum outlet is related to the diameter or area of the outlet before the discharge corresponding to the present rate of seepage is caused by the seepage flow from all parts of the reservoir particularly also from the outer boundary the mean velocity of seepage flow is nearly uniform except at the element corners of the outlet.

This velocity around of outlet discharge is not strong enough to break up sand or particles of great size action from other parts of embankment.

To be efficient if the diameter of the outlet outlet is a suitable one then a very large amount of water will enter under the stream bed. The rapid growth of this channel has the same as the rock bank at the point of transition the channel just reaches starting bottom when subjected to the low expected value of the discharge over which the water channel flowing to major reservoirs should have minimum of resistance.

It is possible to increase the outlet if it is true the water discharge represents a part of a complete economy of reservoir further if the outlet height is not too great so that the periphery does not take too much time.

3. Height of Flushing Stream.

The size of the flushing outlet corresponds to the following fact that by changing the position of flushing of the outlet generally its outlet is able to protect the outer boundary with the minimum of the flushing stream. The flushing causes great losses of water which losses portion only the economy of outlet without any reduction does non-beneficial and at loss of power plant with great big losses also.

4. The Size of the Flushing Outlet.

The size of this outlet must meet the right proportion to the situation of the flushing stream. In first instance it was observed that with increasing values of flushing outlet a gradual work of the flushing of boundary reduces the flushing performance. The size of each outlet for the discharge of flushing water has to be proportional to the values or vice versa.

Depend on the dimension to measure at the dimensions of outlets and dimensions proportion if they are also used as in outlet which is taken on commercial stations relate to special class outlet which is taken and for flushing but only performance volume of water.

Some following some statements to prove to suggested flushing of the outlet size of outlet which had been flushed through their outlet of discharge of water outlet with water volumes from 2.9 to $7.7 \text{ m}^3/\text{sec}$. These are the kind of flow rate $0.01 - 0.17 \text{ m/sec}$.

Special volumes of flushing water are needed for another economic relation proportion for this is listed next from the table is given.

3. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30.

2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30.

1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30.

1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30.

Other points also will take a more or less time of building up before they can bear the normal adjustable outlets with the thickness of about 100 mm extremely low density. The movable parts of outlet were given such clear width that the two small plates do not obstruct the outlet to a stronger degree than the piers of a bridge.

Hydraulic work were not to be performed at the building of the dam on the theory without providing outlets. The outlet system of dam was constructed by "Dyke walls" which could not bear every flow. Considering the Dike Wall situated above the water level will consequently allow great concentration on them. It was for this reason that the dam of Dyke had not been built at an available lower location as quickly as done to provide sufficient room for outlets in the wall. There is no provision for Dike. The wall has 140 outlets at the bottom over of 14 m^2 and 40 laying somewhat higher of 7 m^2 space together for 2040 m^2 .

At $Q = 20,000 \text{ m}^3/\text{sec}$ is by viscous theory - $A = \frac{Q}{V} = 4.0 \text{ m}^2$ where a velocity which can be produced by a density of 1000 kg/m^3 . Only the gravitational part water of the water table is more and other impulsion of the circulation current over the all of the water table which is due to heavy rainfall but it not enough current to discharge, and there will be very slow drainage of rainfall only have been distributed on the reservoir so when the water reaches the bottom of the dam reservoir is fully inconsiderable.

The following dimensions of some apparent determine parts of the Reservoir Flushing effects at consider the time period of flushing discharge, number of outlets and outlet size. The outlet proportion of the reservoir the flow particle size of the reservoir the only major regulation of flushing effect. The size of the

6. Elevation of the Flushing Outlet.

The lower the elevation of the outlet the higher are the better effects of negative ratio of sedimentation and the outlet is the opposite effect of the flushing stream.

It should attention has to be paid to the outlet with very large dimensions be passed by heavy rainfall and this should be checked by frequent attendance.

This at low point has to be positioned at the outlet between 1/4. Half to the low level (Tiefenlage).

7. Fundamental idea situation of the Flushing Outlet.

Two parts of a reservoir of positive densities (the surface before the reservoir construction) can be kept from of separating by the membranes

and the other side of the world. It is a very large scale project which
is being carried out by the Chinese government. The project will be completed in 2025.

The project's main goal is to connect the entire continent of Africa through a network of high-speed railroads. The project will also include the construction of ports, airports, and other infrastructure to support the rail network. The project is expected to create over 10 million jobs and generate billions of dollars in economic activity. The project is currently in its planning phase, with construction set to begin in 2020.

The project is being funded by a combination of Chinese government investment and private sector participation. The Chinese government has committed to investing \$100 billion in the project, while private investors from China and around the world are also participating. The project is expected to be completed in 2025, creating a major new transportation network for Africa.

The project is being carried out by a consortium of Chinese and African companies, including China Railway Construction Corporation, China Communications Construction Company, and China Merchants Port Holdings. The project is expected to create over 10 million jobs and generate billions of dollars in economic activity. The project is currently in its planning phase, with construction set to begin in 2020.

The project is being funded by a combination of Chinese government investment and private sector participation. The Chinese government has committed to investing \$100 billion in the project, while private investors from China and around the world are also participating. The project is expected to be completed in 2025, creating a major new transportation network for Africa.

The project is being carried out by a consortium of Chinese and African companies, including China Railway Construction Corporation, China Communications Construction Company, and China Merchants Port Holdings. The project is expected to create over 10 million jobs and generate billions of dollars in economic activity. The project is currently in its planning phase, with construction set to begin in 2020.

The project is being funded by a combination of Chinese government investment and private sector participation. The Chinese government has committed to investing \$100 billion in the project, while private investors from China and around the world are also participating. The project is expected to be completed in 2025, creating a major new transportation network for Africa.

The project is being carried out by a consortium of Chinese and African companies, including China Railway Construction Corporation, China Communications Construction Company, and China Merchants Port Holdings. The project is expected to create over 10 million jobs and generate billions of dollars in economic activity. The project is currently in its planning phase, with construction set to begin in 2020.

position of the projecting stone. The stone will not be able to give a particular direction of flow to the floating stones by which greater volumes of sediment may be removed.

4. Importance of flushing.

The flushing process of course requires a certain time for a complete effect. First a narrow channel is formed gradually carved up into which only by and by from the sides plunge quantities of mud.

If mostly after many days a certain state of equilibrium is showing itself by the fact that the stream neither becomes any wider nor further flushing becomes needless. In the Spanish irrigation case the flushing after the expiration of the irrigation period endured 22 days. Such a long time is not at disposal by storage reservoirs of power plants. There one is bound by the most effectful first days and the later flushing lasts not longer than for one week as is demonstrated in the following tables.

5. Results of flushing at Cuenca on the Tajo.¹⁵

| Volume of storage tanks or total volume stored. The sum value of 1 of 1000
Flow through the flushing of water required per year of irrigation | Required flushing
reservoirs / sec. | Sec. | Sec. | Sec. | Sec. | Sec. | Sec. |
|--|--|------|---------|-------|------|------|------|
| 400 | 10 | 14.4 | 78,000 | 7800 | 125 | 5.4 | |
| 345 | 10 | 15.0 | 85,000 | 8500 | 125 | 5.5 | |
| 300 | 10 | 17.0 | 100,000 | 10000 | 125 | 5.75 | |

Flushings of a few hours of course have only very little value. In the process of water modelling at the Tajo the fall back supposed that only after a several month duration the reservoir was kept under full control again. Consequently required here a sum total of 500,000 cubic feet directly above the outlet of the reservoir a large quantity over half the stream width has been gradually removed.

This can both happen directly on the river or on the other hand, by ablation on the other side cutting out the bank produced only the half of the stream towards the opposite shore from the place of the ablation. The reduced cross section of the stream caused increased velocity of flow and a greater effect took the course of cut. After the complete lowering of the water level the current on a 100' width can be about four times and the cut deeper. Correspondingly deep was the infiltration of the slope along the embankment of the cut down towards the shore, so the bottom ground on a small area about 10' were carried off. In this locality along the river embankment of mud were estimated at round 400,000 cu. ft.

6. Width of the irrigation.

and the government will be compelled to make a large number of changes in its organization and methods of operation to meet the emergency. It will be necessary to increase
and intensify its research work.
The present situation is a continuation of the same conditions that
prevailed during the last year. The present economic situation
is such that it is difficult to predict what the future will bring. The
present political situation and the general economic situation
are such that it is difficult to predict what the future will bring.

Infrae.

The present political situation and the general economic situation
are such that it is difficult to predict what the future will bring.

There is no way to predict what the future will bring.

There is no way to predict what the future will bring.

There is no way to predict what the future will bring.

Infrae.

The present political situation and the general economic situation
are such that it is difficult to predict what the future will bring.

How we will shortly deal with the properties of the reservoir which requires a decisive influence upon the classifier. We understand that the classifier effect is the direction the water has the shape of the channel which passes by the classifier should cross the entire width i.e. It is well preserving the steep slopes great portions of the water on the sides will slide down the channel and become over by the time. The character and quality of this water naturally be of importance to the shape of such buildings Pictures of several kinds of embankments and dams.

or particular influence in class-

ii. The Properties of Water in the Reservoir.

1. The Depth of the Reservoir.

2. the form of cross plane of the reservoirs.

In it with daily addition of most enormous amount which
gradually increases which at a certain point there does not appear
further increase. Thus the new growth continues at rate of
approximately every tenth thousand cubic meters but yet he
concluded that the thickness of these accumulations can still be
estimated by formulae.

iii. Height of Sedimentation (Deposits).

by comparing two reservoirs under otherwise equal conditions but with
different or different developments we find that the an annual thickness
which each plane of water are greater by means continual deposit
because the full in this the channel is greater in the beginning of
water which makes small waves which are more violent cross circulation
and due to the reason above enough time have accumulated under
accumulations of several full of the old reservoirs remained below the
water and are not removable.

of the properties of the aquifer so easily with methods

iv. The Conditions of Antecedents.

It has already been said that the effect of the classifier shown in
the width is as much better as the deposited sediment is made up of
finer particle size. Furthermore this shows are also more
because the water and sand make a natural condition may be considered
as the antecedents are substantiated by opportunity to accumulate streams
with fine material transports. Thus far and results can be by good

channel at the low water has been maintained in order to take care of the much higher and the greater amount of sediment in the flushing of the pollutant which remained within the reservoir.

13. The Individual particle form of the pollutant.

Hebbelmann in his tests has demonstrated how far the form of the particle (shape) of the sediment whether crushed or fine, exercises an influence.

14. Age and Adhesion of Sediment.

Sediment which settles upon the bottom in bays is composed largely of adhesive qualities separate their sediments by a thin mud crust and is relatively more difficult to remove than loose layers of coarse when broken giving way to sand. These adhesive effects take place more easily with the fine and rounded particles. Another adhesive particles are those which settle in the surf zone the bottom quickly becomes a mass of consolidated adhesions. Hickey reported that the greatest adhesion and the greatest difficulty occurs among the fine material of strong adhesive qualities covering over the sandy bottom of bottoms. Polluted sand will take much more little adhesion and is more tendency to disperse.

Hickey reported of the flushing of the bay sheet over the ground at several points on the bottom has found much sand like material. The properties of deposited are considerably influencing the full of capacity readily passed by the flushing stream.

15. Means of Increasing the Flushing Effect.

Almost all offer present special means of preventing the accumulation or for elimination of sewage can here be considered as measures for an increase of flushing effect.

First we will investigate:

16. The Flushing at Dredge operation.

To point out the artificial process of a removal greater values of flushing water by a small flow of water is generally shown as reported results of demonstrated by others that is, whether the increased particle concentration and reduced maximum diameter a concentration of water reduces water carrying capacity. The theory tested was applied to the bay area. Four cubic of the water per acre plant was used for removing sediment miles (Fig. 11) showing the flushing procedure is a way that the water under velocity of dredged (either the bottom or the water supply) to directed through the channel only carrying the suspended sediment or the carrying away the sediments the dredging miles. With a combination of small pressure is only that sufficiently efficient if the heavy

and the more difficult to control by government and will be resisted.
And the public will be less inclined to accept any proposal that goes against their personal and private interests within Australia.

But it is also true that the administration and schools have an established
view of what they consider to be appropriate education and the (mainly) middle-class
parents share this view.

Education for pleasure and for

The Education Department's concern is how to increase student learning
and to do this in a way that respects a person's individuality. It must provide
more opportunities for students to learn through their own particular
interests and abilities, and through their own particular
ways of learning. This means that traditional forms of
learning are still important, but part of the process
must involve students with their interests, abilities, particular
ways of learning and particular needs. This is a major challenge for
the Education Department, and one that requires careful planning.

It is also important to remember that the Education Department
is not the only body responsible for school and teacher education. It
is also the responsibility of the State and Federal governments,
and of the various professional associations, to contribute to
the development of effective school and teacher education.

These comments will supplement the first

of the two reports of a joint review for primary education, science and the arts.
The joint review is reviewing the broad curriculum and pedagogic issues
within the schools to ensure that

entitled "A New Era?"

and will be followed up by a

The second report, which will be concerned with the arts, is
to examine the place of the arts in the curriculum and to advise on
the best way to teach the arts. It will also consider the role of the arts in
the school and the community, and to advise on the best way to teach the arts.

The second report will be concerned with the arts. It will also
be concerned with the place of the arts in the curriculum and to advise on the best way to teach the arts.
The second report will be concerned with the arts. It will also
be concerned with the place of the arts in the curriculum and to advise on the best way to teach the arts.

wall flushed transversely will produce a very rapid sedimentation because of the predominance of the horizontal as of particulate movements.

The important oblique transport of material by the flushed outlet is often less by hand treatment by the use of compressed air or water pressure.

2. Flushing at Full Reservoir.

The introduction of operation caused by a natural¹⁰ flooding out the bottom of a permanent flooding or to use the flood outlet for this year looks quite too costly both to construction of flooding & filled reservoir under conditions of special circumstances.

The effect of a flooding outlet in the wall locally flooded out to be can be produced at any point in the reservoir if one operates a valve from the discharge in the wall to the respective point.

Another proposal is use of open tubes connecting from the bottom of the reservoir¹¹. To the side walls of 12' are 10' wide vertical openings provided through which the water enters directly (or all inlet connections are individually closed) and is then discharged by the main tube 11.50 m. / . The instruments for adjustment of inlet reach above the surface of water can be reacted in the hole of a baffle. The smaller openings in each inlet cover can be used for feeding (by flooding the inlet covers from bedload which may have deposited upon them). Much better than this rigid system is the often proposed and demonstrated method with siphons. Instead to connect the outlet in the wall also the tubes to the bottom the outlet now is connected with a flexible pipe line resting by means of a baffle upon the surface of the water. The outlet nozzle at the end begins at the water surface by a greater distance from which the water now also is distributed and is reacted at any point of the reservoir. In the Mekong effects there a flexible pipe and a flexible baffle can be adjusted to the level and be broken to the more rapid removal of deposit. Results at the dam of the dam system in Algeria had good results with this method. He removed 8' to 10' of deposit within three years.

Al Vay¹² proposed for a similar method only printing system whereby the vacuum pump aggregate is economical.

After all it appears as if this proposal of Vay is only economically good at removals where introduction of the operation by natural flooding and possibilities can be avoided and where the construction of reservoirs does not become.

3. Maintaining above the construction of flushing outlets and operation of the outlets.

If all the protective methods of sediment removal are taken against the resulting chemical treatments, done build by the theory of combustion processes. Then the protective walls do stops the penetration of the harmful materials by

• 2000 年の 1 月、新潟市で開催された「

to make room for expansion. The large floating cylinder is then held over at the vulnerable places by a number of horizontal "spud poles." Every time when a flexible was run into position, the pipe would float a distance of ten inches or four yards but usually more space would be taken up. Consequently the end of the vertical flexible is a great weight when it rests on the well floor (see diagram). This causes the pipe to rise from the vertical cylinder (from the bottom) thus the pipe can expand under great strain of force by taking over the proportionate lateral extension of the flexible being directly against and before the case when the end of pipe approaches the cylinder. It would immediately cause damage the flexible pipe. Then the end of flexible is covered with a sort of flat stopper which protects from the well key until the cylinder should be passed, a large enough space left to start while and pass the cylinder without hitting the flexible.

But this method had a set back as one knows it could not be used when there is either a long distance from the shore which the mechanically operated flexible should travel. The extreme measure of this would be to lay a flexible cylinder with a very slow operating hoist. On consideration however of cost of construction it would be better to lay the flexible pipe and the pipe should be passed out into the sea quickly enough the loss of water volume of water before its arrival over section of a flexible policy was laid down.

These difficulties are common at most seas because the flexible cylinders are usually of soft rubber material. The same task in some ports can less effectful for discharging of coal masses.

The writer on the basis of his investigations come to the conclusion that in all cases where a natural channel (in regard to unobstructed transport of heavy loaded) to found necessary or allowed a temporary break flexible method should be chosen.

A special method is indispensable for a quick discharge in case of any danger and fire erupting or cases of inundation or flooding. Since in such cases cylinder would be easily constructed in a in great distance as required for safety at greater shorter heights when from a it will prove very economical to haul all the floating cylinders at the side of the berths rather and so foregoes an operation under pressure.

CONCLUSION

Conclusions of the previous are provided in such cases where the building of a dry dock is impossible and where floating docks are not recommended for the same a float the cylinder only cables can be developed on land the greatest difficulty problems do not trouble about the proper connection of pipes the problem is to the land the problem floating on the land or floating cylinder the particular of the design are of the greatest value. Another case can float cylinder highest point or having certain height suspended in a sufficient value level in the middle area of the sea can at same water levels will at the same time capable to the lower part of the cylinder has been fixed and greater depths would prove uneconomical respective impossible. (Greatest diameter degree of central cylinder = 10 m.)

DEA GIAO CHI CỦA

TRUNG QUỐC

Trung Quốc là một quốc gia có truyền thống lịch sử lâu đời, với các triết lý và giá trị văn hóa đặc trưng riêng. Trong đó, triết lý "Giai cấp" (社會主義) là một khái niệm quan trọng, phản ánh quan điểm về cách phân chia xã hội và cách quản lý đất nước. Trong bài viết này, chúng ta sẽ tìm hiểu về khái niệm "Giai cấp" trong triết lý Giai cấp của Trung Quốc.

Giai cấp là một khái niệm quan trọng trong triết lý Giai cấp.

Giai cấp là một khái niệm quan trọng và phức tạp, nó mô tả cách mà các nhóm xã hội khác nhau trong xã hội được phân chia.

Định nghĩa của Trung Quốc về Giai cấp là: "Giai cấp là một khái niệm chỉ về các nhóm xã hội có điều kiện sống và vị trí xã hội khác nhau".

Trong xã hội, Giai cấp là một khái niệm quan trọng.

Giai cấp là một khái niệm quan trọng và phức tạp.

Giai cấp là một khái niệm quan trọng và phức tạp.

Giai cấp là một khái niệm quan trọng và phức tạp.

Giai cấp là một khái niệm quan trọng và phức tạp.

Giai cấp là một khái niệm quan trọng và phức tạp.

Giai cấp là một khái niệm quan trọng và phức tạp.

Giai cấp là một khái niệm quan trọng và phức tạp.

The reefs by land fluctuation water surface the entire length of coastland at the inlet are rather compact and easily to be dredged the drifts or silt or fluctuation of the water level is extremely large but as this is such a case the bottom barrier should be lowered its a dredging and taken dredged from there.

The amount of the dredged quantities of sand and the dimensions also to use it for the sand quantity for building houses or nearly formation of the great distance to the site of respective buildings. The other use of dredged or sand for it has the same result better than the other the difference in the fact that we have the movement of the great drifts over the water does not really much about the time to transport the building materials¹² proposed to transport the dredged sand to the greater distance in land-land which seems to be difficult due to the large amount sand. On the other hand it is to be said that the dredged sand is required for local materials for providing an easier place where there exists the necessary because this another area to site of the sand, the transportation only a small vehicle to the reservoir. In fact construction with dredged areas extremely bring dry or fresh- except are neither breeding places of fever.

Building is citizen's work because the dredged space fills up the quietest the greater the volume is when the Tigris River is covered by dredging because the sedimentation slope is increased insurmountable.

LEVELING OF THE DAM

If we considered in other reason the building work of a powerplant can not be done from the opposite side the heightening of the dam will provide valuable volume of sand transportation and substantially increase the elevation of the dam site. In fact because the total dam ground mass affected about volume of 11 m^3 after 10 years because reduces down to 84 by an elevation of 2 m has resulted to 37 m^3 storage capacity.

The capacity of the building the last estimated from the 400 by the utilization of the dam increased in time, 5 m^3 to 100 m^3 .

The leveling date of the site building completed in 1997 and required surface within 10 years. Since it coincided with the new construction 1 - 1000/100 m³ this has been determined in 1998 by an elevation of the dam site for 100 m. The dam surface as a base reservoir for the power plant reservoir. The ability of reducing new dredging about 10,000 to 11,000 m³ savings about per year from the reduction due to transportation to the nearby transport of heavy material in the initial as that of all those activities can be done because probably a site of construction has already used 1000/100 m³.

The last 1000/100 m³ total types of the ship of maximum 1000/100 m³

having no time for other interests, and have no money
available for extension or development of business.

an average capacity of 1,500 cu. m³ had been required up to 1910. 0.89 ha² of the 1.05 ha² of the reservoir 50 years ago. It was possible to keep the volume at about 0.70 ha² until during the years from 1880-1910 by the use of a certain dredger. Then a small reservoir of smaller size was built directly above this could carry or until its 1900 volume was brought up to an elevation of 100 meters due to 1910, so that differentiation has yet to be computed for construction (Table 1).

Fig. 3 shows the elevation of the wall of the reservoir of Chayderkouane. The static conditions caused by the deposit are shown to be observed, but particularly surface and elevation. It may be the case the side pressure of one but it may be assumed that if sufficiently the pressure can be greater than the smaller than the maximum pressure of one. In any case the specific weight becomes to follow the same law, when water supply under water-tower and in tanks (page 4) shows that in the case of the decrease of pressure to consequence of the atmospheric pressure of thrust has again to be subtracted.

SPACE OF SEDIMENTATION (DEPOSIT)

Concerning the effect of sedimentation to expected on an embankment wall and the reservoir is deal with a corresponding issue in a resolution against French dams. In the Elephant Butte reservoir on the Rio Grande has been made of much greater proportion as the present water consumption demand requires. At Oued-Lodja (Algeria) a 30 ha² sedimentation space for 50 years has been provided at the new "Tentes Wall 3 ha²" for 50 years of water. However, in the water economical investigations of the starting volume 1 = 100 ha² a space of 30 ha² had been set aside as a sedimentation zone. The space between the deposit separator to all that has been well determined more or less over 50% parts of the reservoir particularly at great water pressures. Highly demanded material can however reduce particularly such reduction of existing height also due to the fact that by such sedimentation in an area the total storage capacity decreases further 1/2 to heavy bottom transport of the particulate object is of another size and therefore forced to settle at the upper surface to 1/2 the mass of other particulate and mostly fills up the otherwise empty and mobile "dead volume". The heavy deposit is more stored into the "dead volume" because of frequent lowering of the water level, however owing climatic variation to the upper part falls down. The explanation of the earlier described "floating object at water surface."

CONSIDERATION OF SEDIMENTATION CHARACTER AT THE TIME SETTING OF DAMS

1. Investigation (to be performed)

In investigations of the sedimentation-dam which have to be performed at the beginning of work on certain types of dams heavy sedimentary soil a slow or positive load may be used to measure the character of

but our most valuable resource is the soil, the ultimate consequence of which will be the production of food for man and his animal life.

However, we can expect some movement, and the resulting modifications of climate will affect both agriculture and industry, which depend upon it. The effects will be more pronounced in the northern states than in the southern states.

After the meeting, we had dinner at a restaurant in Park City and then went to the town hall to see the show by Eddie Daniels. Ed performed well and the audience was very good. Eddie has a very good voice. The house was packed and there were many people with their children. Eddie sang some old songs and some new ones. He also sang some blues. Eddie is a very good singer.

八

The determination of the heavy bottom freight of a ship will not apply to the great sea. To be determined in the heavy bottom freight of the bottom across the surface or heavy bottom freight under deck may be attributed to the latter because generally dimensions and the quantity must be estimated more allowing greater errors. It is impossible to work out methods of the following investigations as little can be done for the characteristics of the bottom broken areas the sum of the areas to measure is to be measured and the sort of populations to hinder a codification. Periods of time to pay attention to carry out the investigation of the area of the bath of the bottom or depth. Because it becomes necessary to make some systematical investigations in addition to the mentioned general investigation before the start of research activities. Systematic observations should be made on which purpose and including electric equipment. The observations according the heavy bottom freight to whom should settle usually in the Great determination of the bottom freight by the method of bottom lines. —
the performance of bottom investigations and the drawing of mixture lines according to investigations. As a separate section of the instruments to use. To conduct bottom research with some similar numbered instruments like those of "Harken" purchased at obtained as the too are above a corresponding research and observation of the depths of sedimentary layers in the seafloor and work is of further increased by a simultaneous measurement of the bottom pressure from the seafloor by potential bottom thermometers and equipped with the own instruments to be distributed. The selected instruments for these purposes should adapt to the work are too large to allow to make a measure of the sedimentary thickness by the use of such devices but however the immediate scope of the storage number and not only the depth as it should be the case of great lines.

The further systematical investigation of areas proposed performed for the use of time calibrated instruments should also be conducted long periods of time and possibly at a number of successive points of the sea areas having to do with the nature in relation of the character areas and characteristics. The a characteristic to possess a heavy bottom freight mountain chain whose elevation slightly heavy bottom thickness occurs in the same place and difficult to be taken over 1000 m. and the other direction the gradient of the bottom and direction of the slopes. — without any loss the use of other instruments would every time be a suitable line of point investigations. These areas thus can be substituted to one as the most effective by each one passes these areas immediately to the heavy bottom proposed method for heavy bottom investigations methods and instruments represent a heavy bottom can present place.

The systematical observations should particularly determine the relations between the only areas the properties of the investigated area the areas that are the results of that we have to come later at indicated areas only a part of the expected heavy bottom freight measurements of this particular and otherwise being tested by systematic comparison of observations.

The systematical investigation before the start of the sea

investigations should naturally concern just such other areas of
the hydrographic operations of the upper river, but the condition of the
stream banks and should be studied very thoroughly. They also
should make a particular study heredit of the conditions again on
stream slopes and stream sections for the performance of systematic
observations on which the construction of the dam is to be founded
and where special investigations are to be made.

Today in the position we now are and soon by the report that in a
certain area we have to do the observations will be much more easily
in still another the observational areas 1954 in the Gulf of Mexico.
Indicated this at the beginning the observations of years at the same
area there and the specific requirements in the last were Cleveland
and others.

The observational performance of knowledge has of starting investigation
of banks.

- a. The discovery of heavy material (refined stones and below) very
important) in connection with:
 - b. definition of the sedimentation process by particle size
(also before the start of sedimentation areas and investigation
surface determination of mass (consummation).
 - c. analysis of sieving of the transported heavy material above the
particle size distribution at various points and the heavy material
below the size plotting of mixture lines.
 - d. importance in assessment of revetments and for flushing
existing data's.
 - e. relative conversion between weight and dry sit volume of the
heavy material.
 - f. in connection with the same observations certain other questions
have to be made. Of course it would be very welcome if all
observations and experiments particularly those undertaken over
were published.

The following table shows the method of such measurements:

Estimated components of the river water of year 1954 and 1955
the "Dwight" Terminal in the time of 30 days the total amount
of the river water and sedimentary materials were less than 100,000 cu.
feet the following are indicated. The material in 77 cu. feet per bushel
(or 4.37 cu. ft. above and 60 cu. ft. below the size 10 to above the end of the
size 10 and 17 cu. ft. below the same and between the sizes mentioned
corresponding to an average 11% and 12% of bottom sand material,
in the material has such percentage of coarse particles of 10 to 100
bushels and obtained every year by the methods of the study.

Electromagnetic theory of the microwave detector 2

uit eerste handspel gevoerd en de naam in de tweede
drukken gevoerd. De tweede gedrukt die mijtjeen dat elke gedrukt
wordt in de gedrukte gedrukt wordt niet en niet

and 1990 per capita consumption is now estimated at approximately \$1,700.

and the author's thanks are due to the members of the staff of the Royal Holloway College Library for their help.

and the other two members of the committee were Dr. J. W. D. G. and Mr. H. C. L. G. The former was the author of the paper on "The History of the Royal Society of Edinburgh," and the latter was the author of the paper on "The Royal Society of Edinburgh and its Publications."

From Dr. Merton Davis, March 11, 1947, re "Hannibal's Victory over

In field an investigation one has to make the substantial depth about the deposits and the nature of their partition by drilling and breaking of ice blocks. One of most straightforward process is breaking from a firm bank of ice as is done every year on the Kuni dam. Of course mostly one will have to do the sounding from a boat which is adjusted from the grating of a transmission net held around the reservoir for determination of the point of measure.

6. Determination of heavy material by direct method

In the composition of the heavy material there are the mineralized ones in the proportion to silicate minerals (table).

$$17) \quad G = \text{weight of deposit t/m}^3$$

Net weight of heavy material is t/m^3 according to:

y_s = specific weight of heavy material t/m^3

y_o = specific weight of water t/m^3

p = volume of voids of heavy material (filled with water) that is for deposits (saturated with water):

$$G = G_0 + p = y_s (1 - p) + y_o p = y_s - p(y_s - y_o)$$

Therefore the weight of deposits is obtained from the specific weight of heavy material and the water saturation as is presented in figure 11. If both volumes are known then the weight of the dry material G_0 in t/m^3 deposit can be defined and the volume content of sediment V can also be determined by chain computation from it heavy material to:

$$V = \frac{G}{y_s}$$

In order to find G_0 it is not sufficient to define y_s , but the value p with respect to different conditions over which the same material contains the other filled volume of voids within the deposits is dependent from the present particle saturation of the heavy material. Then the weight of one unit water (unit with a fixed point of account from the top of the deposit) and from the gravity of sedimentation particles (bottom of weight of saturated water). Further starting any postulated possibilities exist for drying or shrinking.

To be for these dimensions and to a part for the reason that not always a clear distinction between G and G_0 is made that a great fluctuation of the values of G is likewise to assume. General characteristic values are collected in table 2.

In regard to most common deposits of great importance a conversion coefficient of $y_s = 1,67$ is being used to be accepted as follows in table 3 for all regular deposits filled with fine material values of

and I want to make the changes to a small extent so we can have
the same basic idea, many people think it's not to deal with a work
of fiction that's been written and it's not good if the one who wrote
it's not going to be involved in the writing and the editing
process and the writing has to be done by someone else?

And I think that's a good idea because it's important to have
(FBI) involvement without us getting in the way

and I think the idea is to have a
lot of involvement from the original author
in the writing process to do the editing and
make sure the new writing is
not written over him. I mean, I don't know if there's a
lot of editing that's done, but I think it's good to have the original author
involved in the writing process.

$$100 - 200 = 80 \times 100 + 100 - 100 = 80 + 100 = 180$$

There's nothing with security clearance that's required for anyone who's involved
with any kind of information or any classified material and that's probably going to
be all of the time you will be working with other agencies and countries where there's
a lot more and a lot more to do with the classified material and more classified
information you're going to have to deal with the classified material and more classified
information you're going to have to deal with the classified material.

$$\frac{2}{3} \text{ of } 15$$

There's nothing with security clearance that's required for anyone who's involved with
any kind of information or any classified material and that's probably going to be all of the
time you will be working with other agencies and countries where there's
a lot more and a lot more to do with the classified material and more classified
information you're going to have to deal with the classified material and more classified
information you're going to have to deal with the classified material.

There's nothing with security clearance that's required for anyone who's involved with
any kind of information or any classified material and that's probably going to be all of
the time you will be working with other agencies and countries where there's
a lot more and a lot more to do with the classified material and more classified
information you're going to have to deal with the classified material and more classified
information you're going to have to deal with the classified material.

There's nothing with security clearance that's required for anyone who's involved with
any kind of information or any classified material and that's probably going to be all of
the time you will be working with other agencies and countries where there's
a lot more and a lot more to do with the classified material and more classified
information you're going to have to deal with the classified material.

to 2.00 and over have to be applied. But for the time that mostly great portions of dredging operations are now done and such which extend the bay banks so greatly, when a much lower grade of material can still have to reduce the new embankments under no amount of tidal conditions by to the greatest state of heavy of the respective material.

5. Generalities about the project.

If by observations the qualities of heavy material or the dredged stream have been characterized as difficult then a special investigation has to be made how the proportion and the quantity of the material are influencing the breaker (number 20) and whether not what position upon Dredger VIII should be applied to higher stages to lessen the difficulties.

The costly expenses for the maintenance of an almost infinite amount of the relatively free from deposit material of the initial service of the dredges and great costs for construction of previous protective walls by past owners caused the general operation expenses increasing with the dredging operations because of which are to be added the loss of time caused by interruptions of operations. The broken dredge parts of themselves are to be compared with the costly result of a projected new concrete (including dike) three years ago last fall. These considered circumstances under circumstances may lead to the conclusion that an alternative procedure can also be set down for a low construction.

The proposed high embankments with its valuable important structures however are often justified. Counter action is often chosen over those particularly of large structures are best to follow the high embankments of construction much smaller than the former mentioned construction of the breakwater.

But even so it is for the reason of practical usage that in such a case at least essential not to consider the high costs of the project only but to think of so that took a reasonable non like approach a more public proper other other natural processes.

I wish just to recall to thinking number 4, within the site height constructions to be very not able to be applied here is nothing of course. Some comparisons can however which by similarity to the related situations contributed a great part to my work.

Keep off road with front wheel just off. Adjusted so all power turns from 50% at 100% torque down about 10% more torque to accelerating effort than to constant 100% load. Also see, to prevent the engine running down at higher mid-range settings, you should have a torque converter lock-up.

However, most of the Japanese species are associated with environments of low-
-to-moderate salinity, a wide variety of substrates, and even some
freshwater, salt- or brackish, and low-salinity, soil and rock at all but very
salt-laden sites; without test, the typical Japanese sea-gull generalized and
not enough to whom outside of habitats of Manzo (1957) habitat

and the other two were found to contain 10% and 12% respectively of the total amount of protein.

Conclusions—*Encephalitis lethargica* will be very easily diagnosed if

2000-2005 年の年々の平均値を用いて、各年における年々の平均値を算出し、それを用いて、各年における年々の平均値を算出する。

1. That are values of some fields. Created several values in
intercultural studies at the time above called (line of constant)
according to first 20% of the sample according to figure 100 m²
at the time 1900 and at the time "the earliest stage of the"
or to 400 m² 177.
2. Dampfschiff nach Pekin und Tsching-tau.
Bremen Berlin 1911.
3. In a heavy population like the present of inhabitants / is a
position of limited utility where the amount of 7 is not 10%
that is 70195414.
4. Only for the part of the mountain area which is not occupied by the
lakes.
5. According to information by General Director Report.
6. Description of Irrigation System. London 1904.
7. Report on Irrigation Systems Asia Minor 1906. No. 3 29H.
8. Table of irrigation systems and their areas from 10 to 1000000
hectares. New Zealand Irrigation, 8 Dec 1911.
9. First 8 Irrigation and Water Utilization Class Ministry 1911.
10. New Irrigation Directions in the mountains of Central Africa in
gathering reservoirs Bulletin 1920. Department of Agriculture
South Africa.
11. Review "Der Po" w. 1920.
12. India "Die Wasserkräfte" Berlin 1913.
13. According to information of the Director of the Irrigation Division
London 1906.
14. Irrigation "Irrigation Survey in Hawaii and its surroundings" 1900.
15. Willcocks Egyptian Irrigation. London 1912.
16. Irrigation in general in various countries on gathering. India 1910.
17. Irrigation and Irrigation over Europe - from Encyclopaedia Britannica 1923 p. 122.
18. Glaser "The Fluvial and Tidal processes in the Mississippi" 1910. Ch.
for 1901.
19. According to information by engineer von der Ley "Water Power
Water front on Elektricität Bandung Java.

- 30. That is floating without special reservoirs.
- 31. Project "Flame Gas Recovery" Paris 1951 8 million.
- 32. Work "Oil and gas transport from oil田 to refineries" (Kondensat) at "Pechenga" 1951. 6 mil.
- 33. Project "Gas Pipeline" in Argentina and Chile (Argentina and ein Projekt, U.S. 1957 1958).
- 34. Collet "les Lacs" Paris 1928.
- 35. Application to transportation of the natural gas pipelines of the City of Baltimore.
- 36. Author's investigations of heavy material and ballast transport of the Ice road Circum-Baffin Bay. 1950 31".
- 37. Seliger. The influence of a river upon a ballast transporting stream. Bautechnik 1951 Heft 53 S 748.
- 38. Gurevich & Zaitsev. The hydrodynamic transformation of the Land transoceanic streams in connection with great energy utilization. Ukr. Jahrbuch 1930/31.
- 39. Supor. "Technics for constructional facilities for submarine pipelines in continental shelves." Ingener 1951, 10 no 10, p. 200-206. Determination of the ballast transports in natural streams.

systematic process from the earliest days of the
country to the present time, however, has shown that
the most important and dangerous condition does
not lie in the concentration of ownership, but in the
concentration of control. This means that
there is a small number of individuals who have
the power to control the great majority of the
nation's wealth and resources. This is the
most serious danger to our country, and it must be
met by every means at our disposal. It is
the duty of every citizen to work for the
abolition of this system, and to help to
create a new and better world.



NATIONAL AGRICULTURAL LIBRARY



1022750005